

FIG. 1

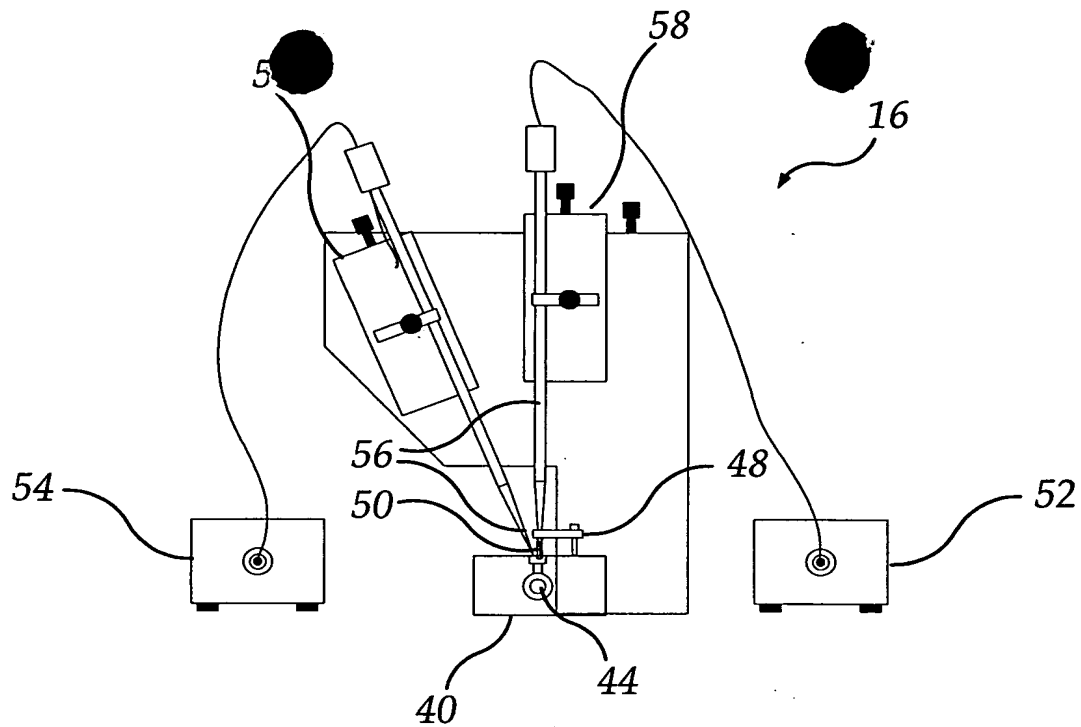


FIG. 2

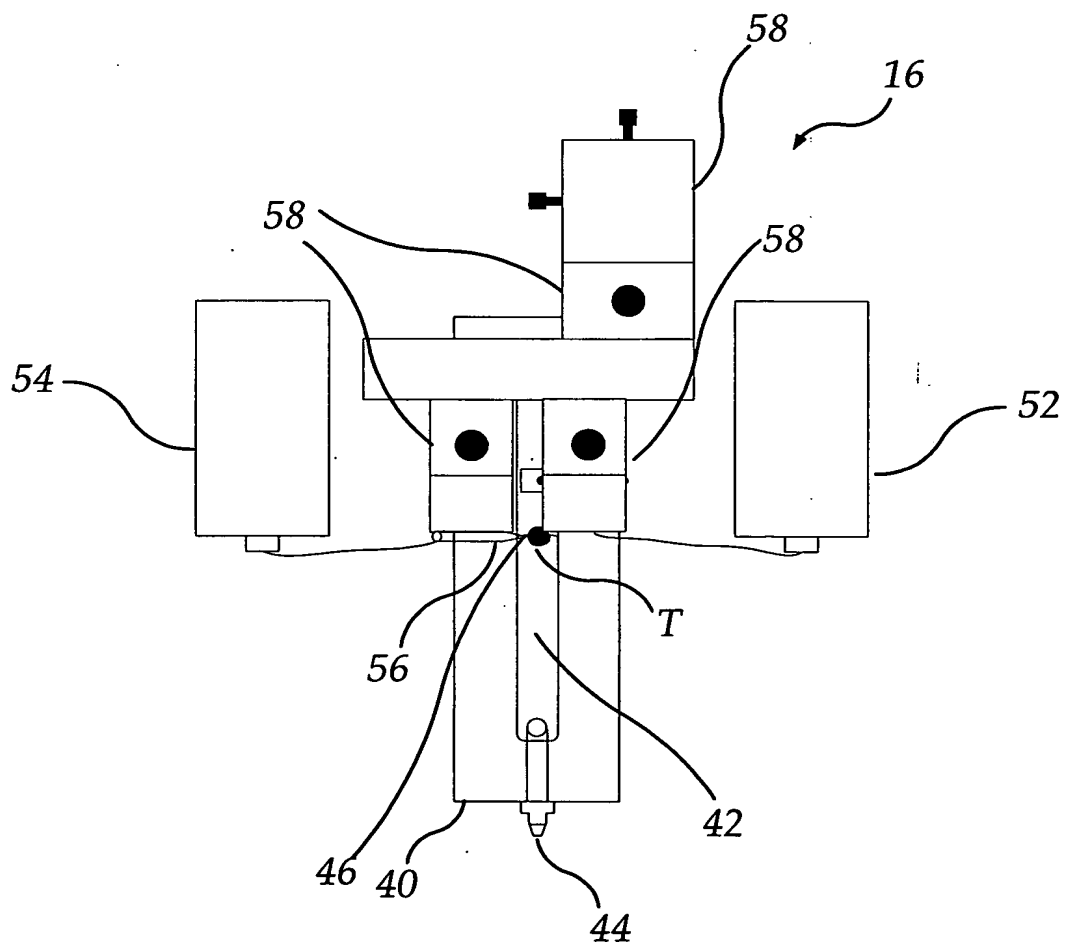


FIG. 3

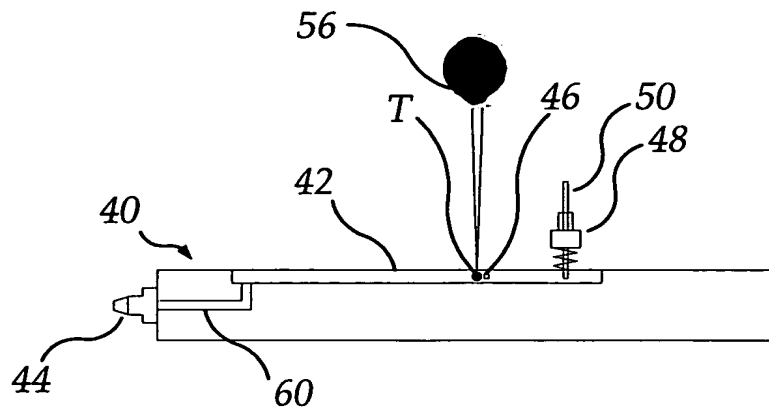


FIG. 4A

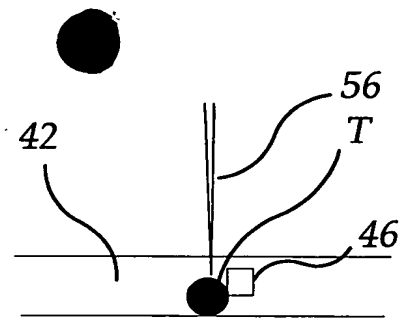


FIG. 4B

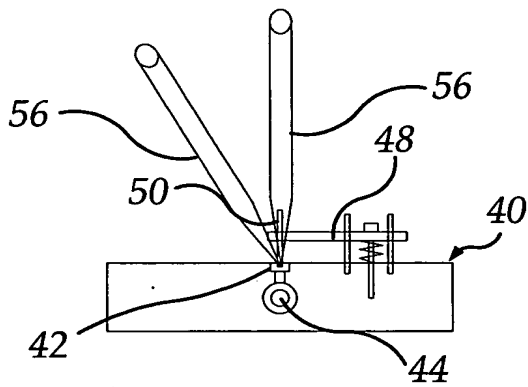


FIG. 4C

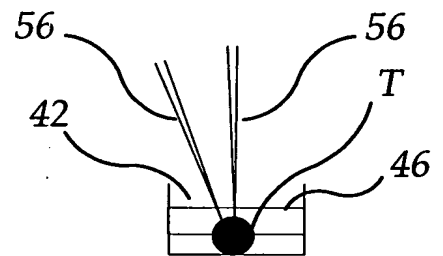


FIG. 4D

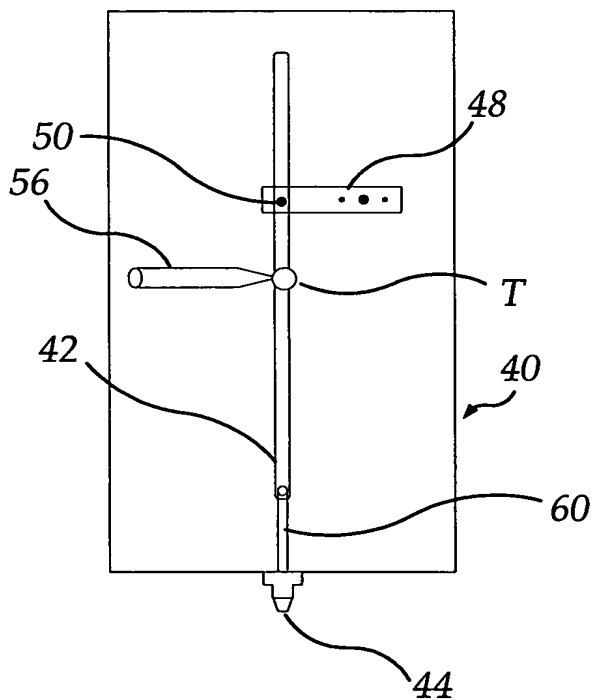


FIG. 4E

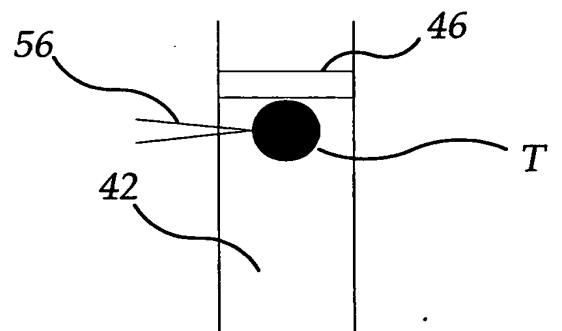


FIG. 4F

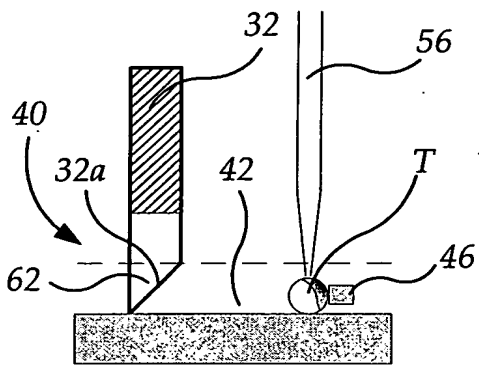


FIG. 8A

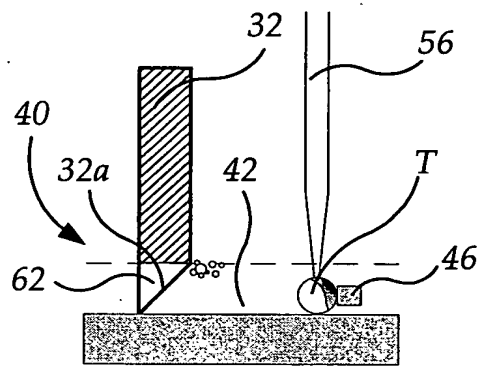


FIG. 8B

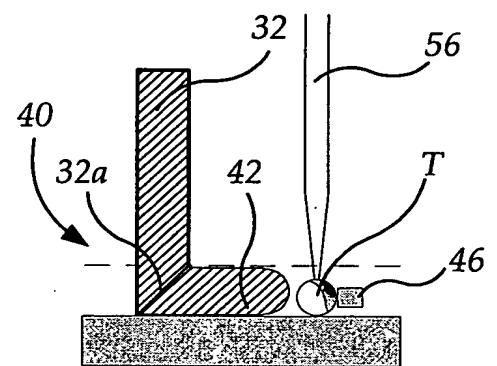


FIG. 8C

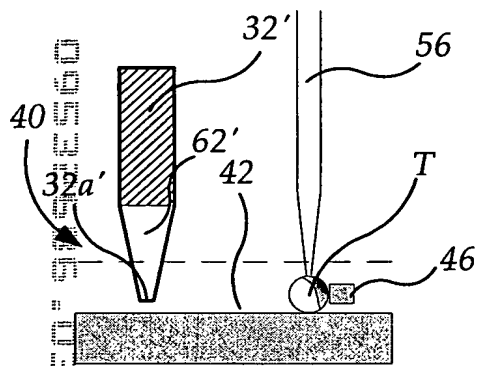


FIG. 8D

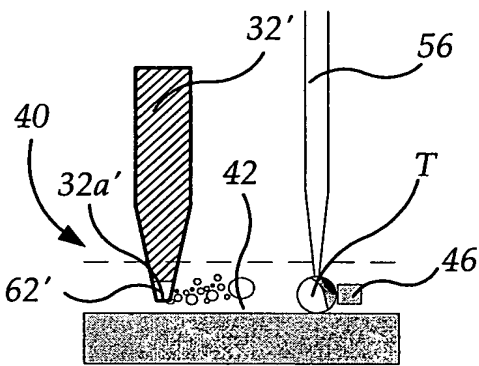


FIG. 8E

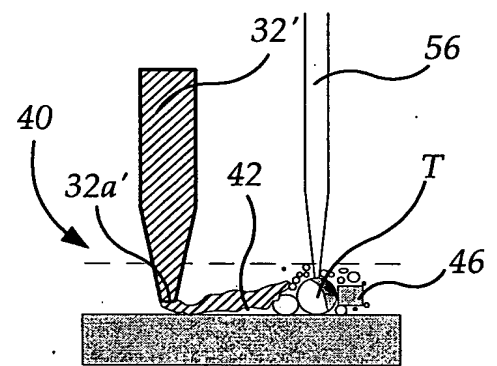


FIG. 8F

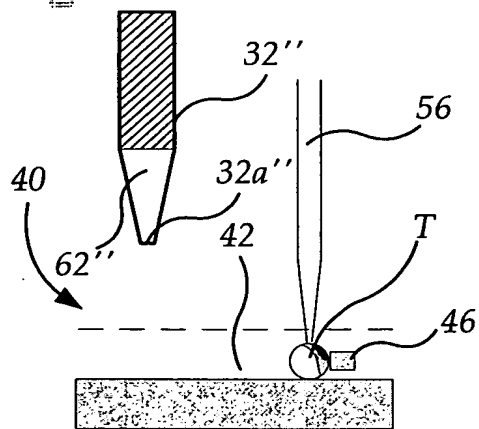


FIG. 8G

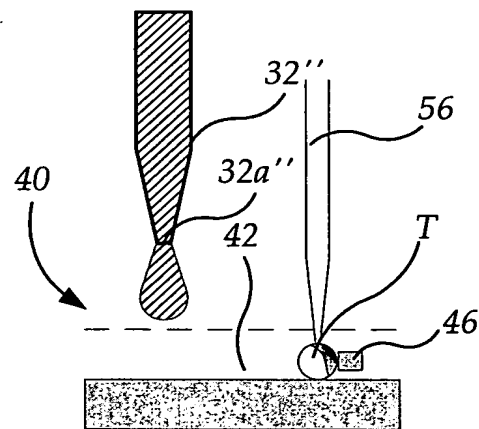


FIG. 8H

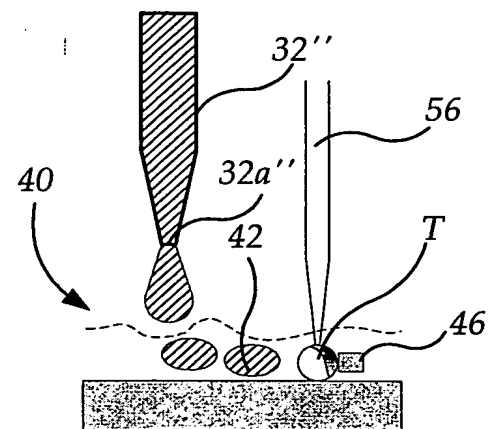


FIG. 8I

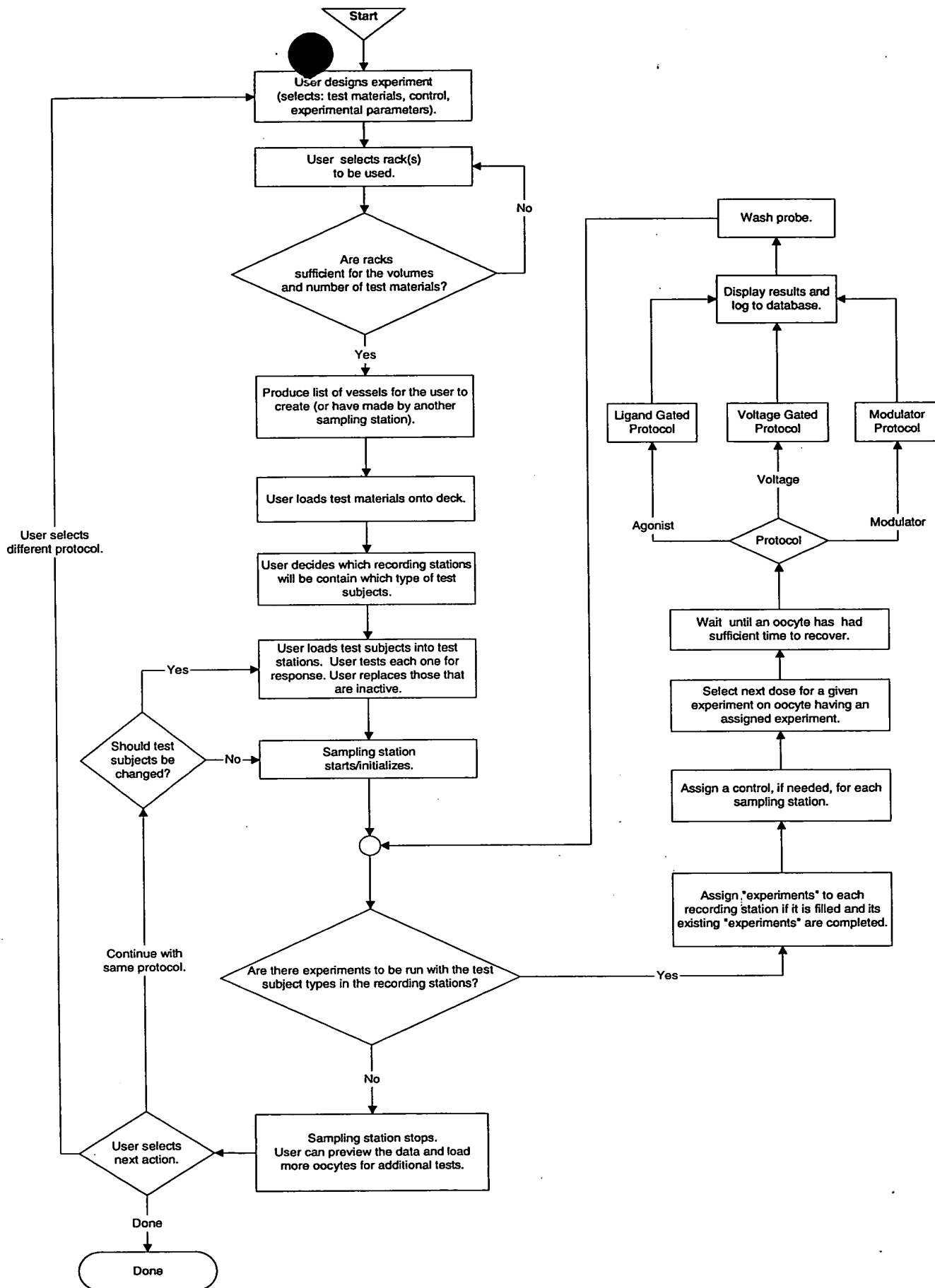


FIG. 9


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graph TD
    A[Agonist Protocol] --> B[Rate test material of interest or control from correct vessel.]
    B --> C[Establish safety gap in probe.]
    C --> D[Wash exterior of probe in wash station.]
    D --> E[Position probe in flowcell.]
    E --> F[Collect baseline data.]
    F --> G[application of test material and shut off perfusion bath.]
    G --> H[Collect data for duration specified in protocol.]
    H --> I[Test material application and start perfusion bath.]
    I --> J[Collect recovery data for duration specified in protocol.]
    J --> K[Return]
  
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graph TD
    A[/Voltage-Gated Protocol/] --> B[Aspirate test material from vessel.]
    B --> C[Establish safety gap in probe.]
    C --> D[Wash exterior of probe.]
    D --> E[Position probe in flowcell.]
    E --> F[Collect baseline data using a change in holding potential as a stimulus.]
    F --> G[Start test material application and shut off perfusion bath.]
    G --> H[Collect data using a change in holding potential as a stimulus.]
    H --> I[Stop test material application and start perfusion bath.]
    I --> J[/Return/]
  
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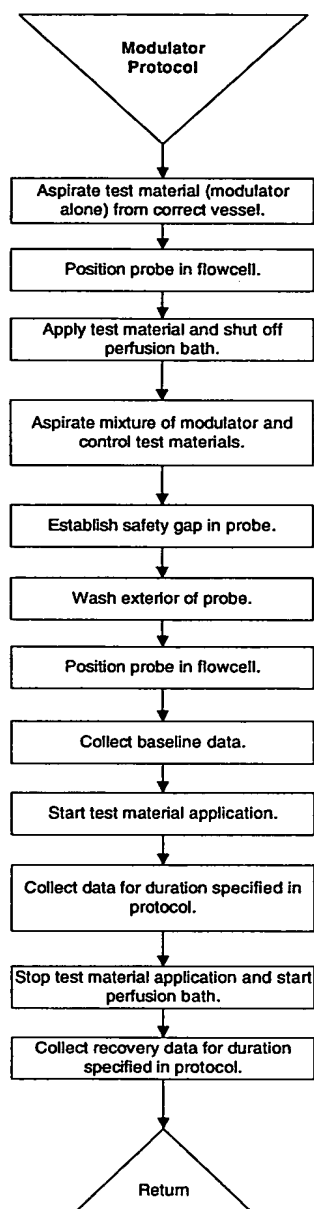
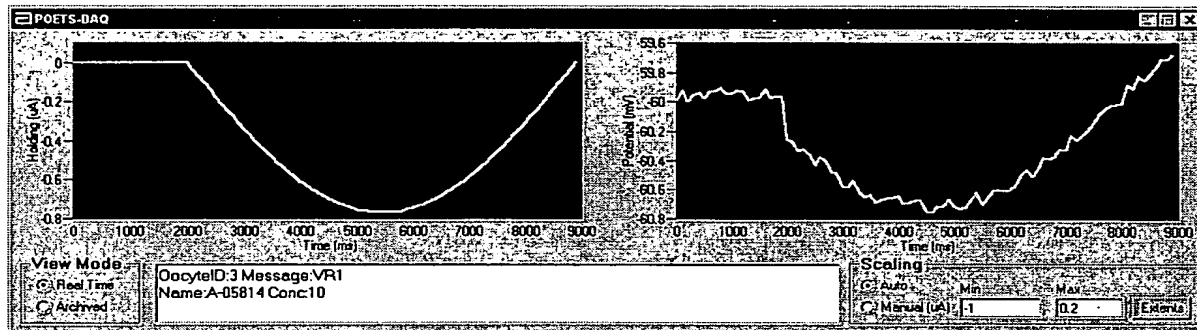


FIG. 12



POETS: Virgil-Protocol Run

Experiments to Run

Message	Ag	UM
VR1	A-00011.69.101	1,1,3,3,10,10,30,30,100
VR1	A-00012.69.101	1,1,3,3,10,10,30,30,100
VR1	A-00012.69.101	1,1,3,3,10,10,30,30,100
VR1	A-00014.69.101	1,1,3,3,10,10,30,30,100
VR1	A-00014.69.101	1,1,3,3,10,10,30,30,100
VR1	A-00016.69.101	1,1,3,3,10,10,30,30,100

Protocol: Agonist
Control: Capsaicin 100 u
SessionCode: 2
R1 208 (15 ml)

Experiment Review

Cells: 1 F

Store

Message	Ag	UM
VR1	A-05820.69.101	1,1,3,3,10,10,30,30,100,100,300,300

Redo

Name	UM	Time	Peak (nA)
A-05820.69.101	1	1/17/00 6:11:53 PM	-909
A-05820.69.101	1	1/17/00 6:11:55 PM	-250
A-05820.69.101	3	1/17/00 6:11:57 PM	-500
A-05820.69.101	3	1/17/00 6:12:26 PM	-500
A-05820.69.101		1/17/00 6:12:27 PM	-909

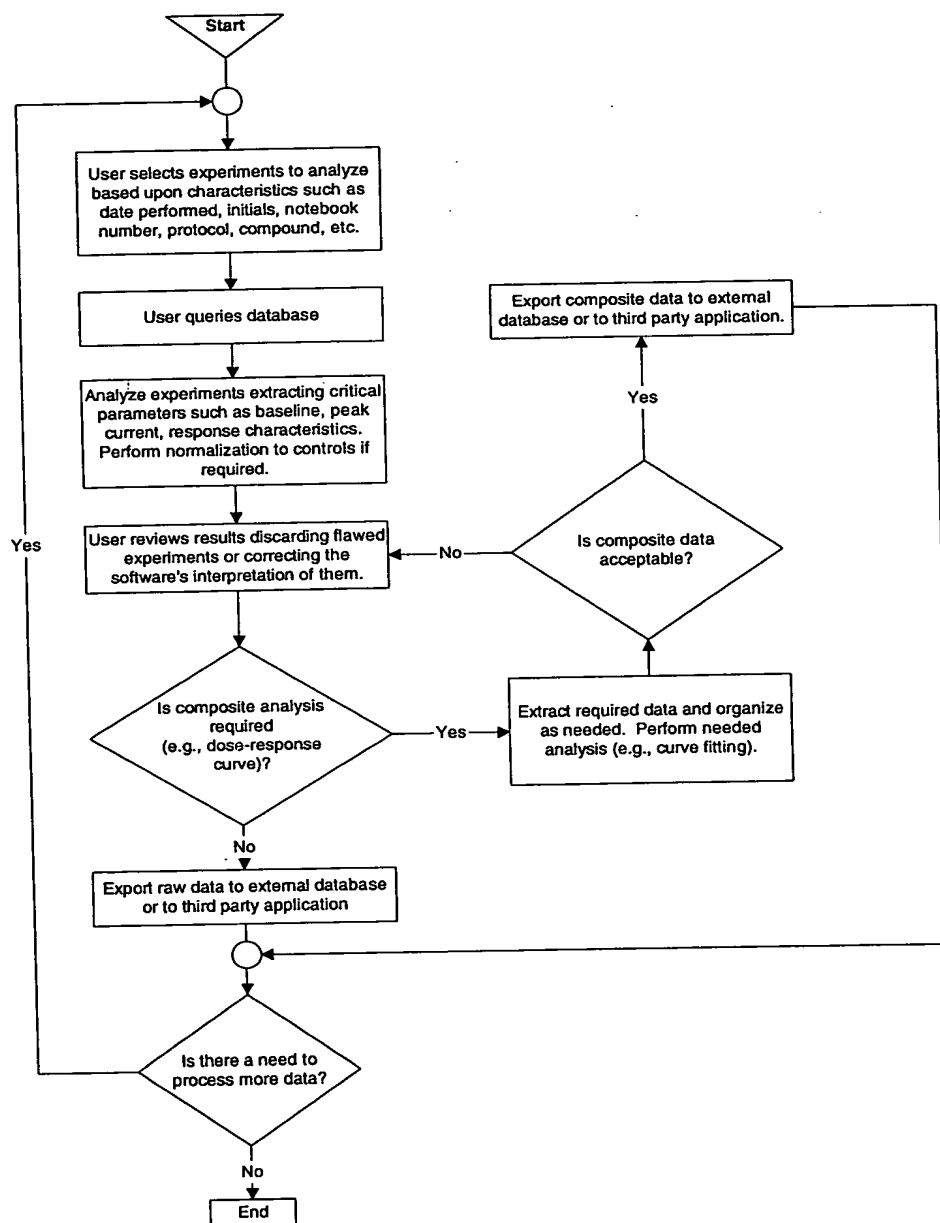
Run Control

Status: Processing Cell#3

Buttons: [Debug] [Pause] [Abort] [Deny]

FIG. 13

FIG. 14



**R-VR1 oocytes
n=4 concurrent**

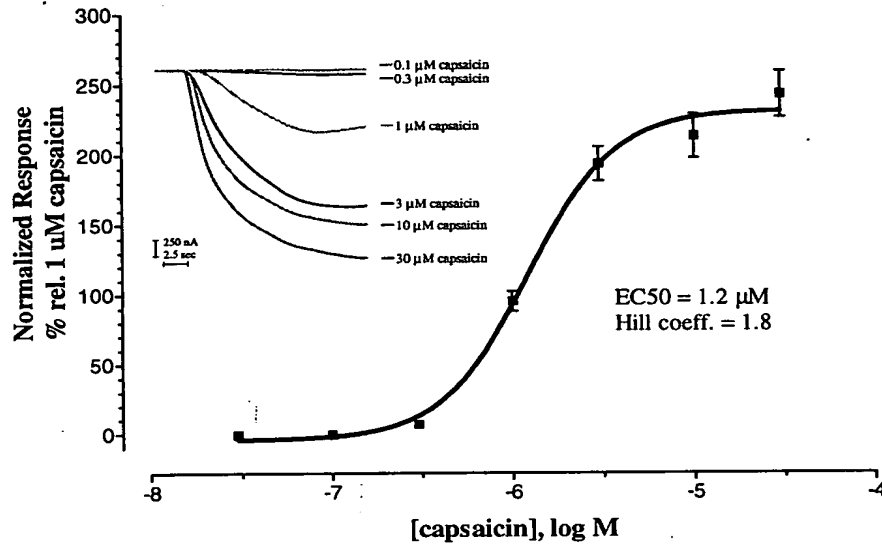


FIG. 15

**R-VR1 oocytes
n=7 in 2 groups**

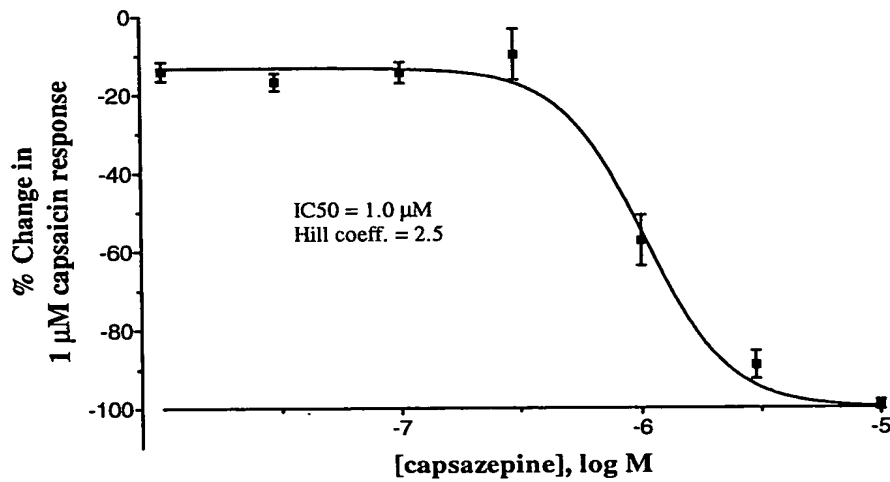


FIG. 16

**H-P2X2a oocytes
n=2 concurrent**

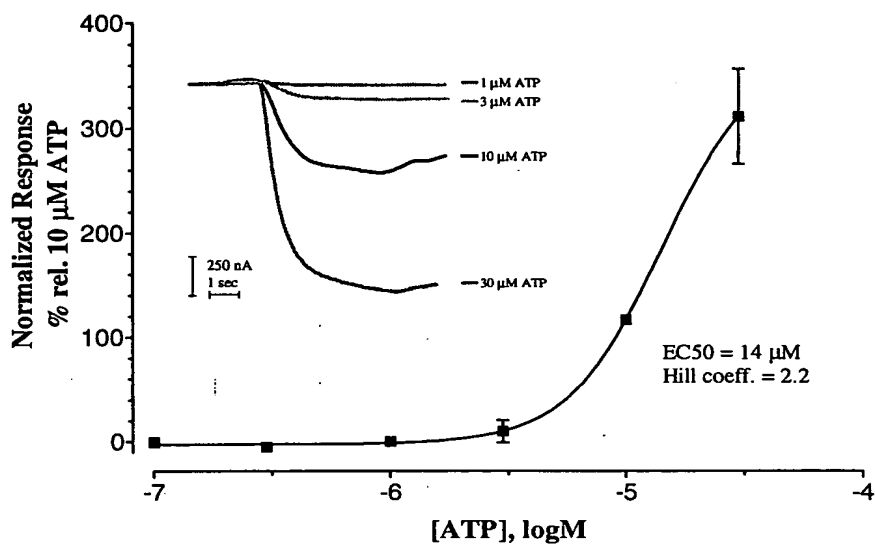


FIG. 17

**H-P2X2a oocytes
n=3 concurrent**

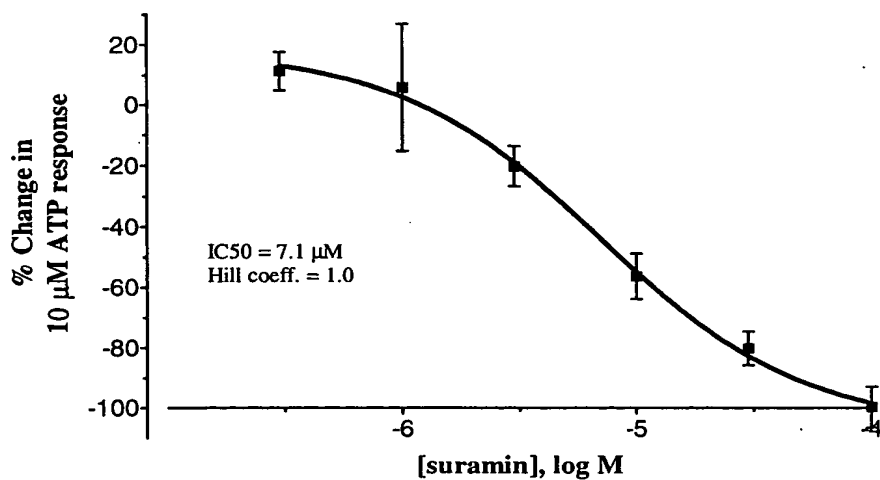


FIG. 18